NOVEMBER/DECEMBER 2024

FCA31/FCS31/FSC31/CCA31/CCS31/CSC31 — PROGRAMMING IN JAVA

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term – Keywords.
2. What is Encapsulation?
3. Define the term – Interface.
4. What is meant by Static Variable?
5. Mention any two methods in StringBuilder class.
6. What is ArrayList?
7. What is meant by DirectoryStream?
8. Define the term – Serialization.
9. Explain AWT.
10. What is Event handling?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss on the import statement and Java API with example.

Or

(b) Describe about the Constructor and Variable declarations.

12. (a) Explain the method of Return type declarations and Returning a Value.

Or

(b) Discuss on the concept of Overloaded Constructors.

13. (a) Describe the syntax of 'if-else' and 'switch' statements.

Or

(b) Explain briefly the Exception handling mechanism.

14. (a) Discuss on the importance of toString( ), hashCode( ) and equals( ) methods.

Or

(b) Describe briefly the File and Directory attributes.

15. (a) Explain the steps for developing an Applet program and the method of Passing values through parameters.

Or

(b) Discuss on Layout Managers and AWT Component classes.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the fundamentals of Overriding and Overloading of Methods with example.

17. Describe the different types of Java Operators.

18. Discuss on the method of declaring, constructing, and initializing an Array with an example.

19. Explain the Thread States and Transitions.

20. Describe the method of creating Windows and Dialog boxes.

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